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JP2180903A2: CROSSLINKED CHITOSAN

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Country: **JP Japan**

Kind:

Inventor(s): **MAEKAWA MASAMI
DOI HIROSHI**

Applicant(s): **NIPPON OIL & FATS CO LTD**
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Application Number: **JP1988000335055**

IPC Class: **C08B 37/08; A61K 7/00; A61L 27/00; C07D 207/46;**

Abstract: **Purpose:** To obtain a crosslinked chitosan improved in flexibility and heat resistance by crosslinking chitosan by reaction with a specified N- hydroxyimidoester compound.

Constitution: 1-10wt.% chitosan (a) of a degree of deacetylation of chitin of 40-100% is dissolved in a dilute aqueous solution whose acidity is adjusted to a pH of 4-5 with, e.g. hydrochloric acid. An N-hydroxyimidoester compound (b) of formula I (wherein X is a residue of a 2-6C compound of 2-6 OH groups; A is an oxyethylene or the like; Y is a residue of a dibasic acid such as oxalic acid; Z is a group selected from among groups of formulas II-VIII and partially substituted derivatives thereof; m is 1-500; and n is 2-6) is mixed with the above solution in an (a) to (b) ratio by weight of 100/(1-50), and the mixture is agitated at 20-30°C for about 5min at 1000-2000rpm and left standing at 40-60°C for 2-3hr.

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Other Abstract Info: **CHEMABS 113(26)233625Z CAN113(26)233625Z DERABS C90-257613
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Foreign References: (No patents reference this one)



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